

## Rabbit Anti-MTOR Polyclonal Antibody

CPB-1104RH Rabbit(MTOR)

Lot. No. (See product label)

### PRODUCT INFORMATION

<b>Product Overview</b>	Rabbit Anti-MTOR Polyclonal Antibody
<b>Antigen Description</b>	Kinase subunit of both MTORC1 and MTORC2, which regulate cell growth and survival in response to nutrient and hormonal signals. MTORC1 is activated in response to growth factors or amino-acids. Amino-acid-signing to MTORC1 is mediated by Rag GTPase. MTORC1 phosphorylates and activates S6K1 at 'Thr-421'. MTORC2 is also activated by growth factors, but seems to be nutrient-insensitive. MTORC2 promotes the serum-induced formation of stress-fibers or F-actin. MTORC2 plays a critical role in AKT1 'Ser-473' phosphorylation and regulates the phosphorylation of SGK1 at 'Ser-422', and also modulates the phosphorylation of PRKCA on 'Ser-657'.
<b>specificity</b>	The antibody detects endogenous level of total MTOR protein.
<b>Target</b>	MTOR
<b>Immunogen</b>	Peptide sequence around aa.2446-2450(T-D-S-Y-S) derived from Human MTOR.
<b>Host</b>	Rabbit
<b>Species</b>	Human
<b>Cross Reactivity</b>	Human; Mouse;Rat.
<b>conjugation</b>	N/A
<b>Applications</b>	WB,IHC

### PACKAGING

<b>Format</b>	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Storage</b>	Store at -20°C/1 year.

### ANTIGEN GENE INFORMATION

<b>Gene Name</b>	<a href="#">MTOR mechanistic target of rapamycin (serine/threonine kinase) [ Homo sapiens ]</a>
<b>Official Symbol</b>	MTOR
<b>Synonyms</b>	MTOR; mechanistic target of rapamycin (serine/threonine kinase); FK506 binding protein 12 rapamycin associated protein 1 , FRAP, FRAP1, FRAP2; serine/threonine-protein kinase mTOR; dJ576K7.1 (FK506 binding protein 12 rapamycin associated protein 1); FK506 binding protein 12 rapamycin associated protein 2; FKBP rapamycin associated protein; FKBP12 rapamycin complex associated protein 1; FLJ44809; mammalian target of rapamycin; RAFT1; rapamycin and FKBP12 target 1; rapamycin associated protein FRAP2; rapamycin target protein; RAPT1; rapamycin target protein 1; FKBP-rapamycin associated protein; FKBP12-rapamycin complex-associated protein 1; FK506 binding protein 12-rapamycin associated protein 1; FK506 binding protein 12-rapamycin associated protein 2; FK506-binding protein 12-rapamycin complex-associated protein 1; FRAP; FRAP1; FRAP2;
<b>GeneID</b>	<a href="#">2475</a>
<b>mRNA Refseq</b>	<a href="#">NM_004958</a>

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**Protein Refseq** [NP\\_004949](#)

**MIM** [601231](#)

**UniProt ID** P42345

**Chromosome Location** 1p36

**Pathway** AMPK signaling, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Adaptive Immune System, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem;

**Function** ATP binding; RNA polymerase III type 1 promoter DNA binding; RNA polymerase III type 2 promoter DNA binding; RNA polymerase III type 3 promoter DNA binding; TFIIIC-class transcription factor binding; kinase activity; kinase activity; nucleotide binding; phosphoprotein binding; phosphotransferase activity, alcohol group as acceptor; protein binding; protein domain specific binding; protein serine/threonine kinase activity; protein serine/threonine kinase activity; ribosome binding;